

**IN THE CLAIMS:**

Please cancel claim 17 without prejudice or disclaimer, and amend claims 3-7 and 14-15 as follows:

1-2. (Cancelled)

3. (Currently Amended) A method for displaying gene expression data, comprising:

calculating a first ratio  $\frac{b}{a1}$  of a gene expression level  $b$  of a Sample B ~~[[and]]~~ with respect to a gene expression level  $a1$  of a Sample A for each of a plurality of genes in a first experiment;

calculating a second ratio  $\frac{c}{a2}$  of a gene expression level  $c$  of a Sample C ~~[[and]]~~ with respect to a gene expression level  $a2$  of the Sample A for said each of a plurality of genes in a second experiment;

obtaining a mediated dataset of gene expression levels for the Samples ~~[[A,]]~~ B, C, A expressed as  ~~$(\frac{b}{a}, \frac{c}{A}, 1)$~~   $(\frac{b}{a1}, \frac{c}{a2}, 1)$  for said each of a plurality of genes;

calculating a first magnitude  $r$  of said dataset expressed as  ~~$r = \sqrt{(\frac{b}{a})^2 + (\frac{c}{A})^2 + 1}$~~   $r = \sqrt{(\frac{b}{a1})^2 + (\frac{c}{a2})^2 + 1}$ ; and

displaying ~~[[marks]]~~ a mark of a first product of the first ratio and  $1/r$ , a second product of the second ratio and the  $1/r$ , and the  $1/r$  on a coordinate position~~[[s]]~~ with respect to x-, y- and z-axes on a surface of a sphere for said each of a plurality of genes.

4. (Currently Amended) A method for displaying gene expression data according to claim 3, further comprising: calculating a second magnitude  $R$  of said dataset expressed as  ~~$R = \sqrt{b^2 + c^2 + (a + A)^2}$~~   $R = \sqrt{b^2 + c^2 + (a1 + a2)^2}$  displaying ~~[[marks]]~~ a mark of a third product of the first ratio and  $R/r$ , a fourth product of the second ratio and the  $R/r$ , and the  $R/r$  on a coordinate position~~[[s]]~~ with respect to x-, y- and z-axes for said each of a plurality of genes.

5. (Currently Amended) A method for displaying gene expression data according to claim 3, further comprising: performing a clustering analysis on the displayed marks for said plurality of genes on the sphere; and marking at least one gene group obtained by the clustering analysis as a region on the sphere.

6. (Currently Amended) A method for displaying gene expression data according to claim 4, further comprising: performing a clustering analysis on the displayed magnitude coordinate positions inside the sphere for said plurality of genes; and marking at least one gene group obtained by the clustering analysis as a region inside the sphere.
7. (Currently Amended) A method for displaying gene expression data according to claim 3, wherein the expression level data is data in a time series, which is displayed based on respective time points for said each of a plurality of genes in conjunction with a direction of changes of the coordinate positions with time in the displaying step.
8. (Previously Presented) A method for displaying gene expression data according to claim 5, wherein the expression level data is data in a time series, and said region is displayed based on respective time points in conjunction with a direction of changes of said region with time in the displaying step.
- 9-13. (Cancelled)
14. (Currently Amended) A method for displaying gene expression data according to claim 4, wherein the expression level data is data in a time series, which is displayed based on respective time points for said each of a plurality of genes in conjunction with a direction of changes of the coordinate positions with time in the displaying step.
15. (Currently Amended) A method for displaying gene expression data according to claim ~~[[11]]~~5, wherein the expression level data is data in a time series, which is displayed based on respective time points for said each of a plurality of genes in conjunction with a direction of changes of the coordinate positions with time in the displaying step.
16. (Original) A method for displaying gene expression data according to claim 6,

wherein the expression level data is data in a time series, and said region is displayed based on respective time points in conjunction with a direction of changes of said region with time in the displaying step.

17. (Cancelled)